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INTERNATIONAL PRELIMINARY EXAMINATION REPORT WIPO

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	licant's or agent's file reference FOR FURTHER ACTION See Notification of Transmittal or Preliminary Examination Report		on of Transmittal of International xamination Report (Form PCT/IPEA/416)				
2000.086	International filing date (day/m		Priority date (day/month/year)				
International application No.	International living date (day/in-	oning our					
PCT/US03/20625	30 June 2003 (30.06.2003)		25 September 2002 (25.09.2002)				
International Patent Classification (IPC)	or national classification and IPC	•					
IPC(7): B01D 53/22 and US Cl.: 95/51;	96/4,10						
Applicant							
EXXONMOBIL UPSTREAM RESEAR	CH COMPANY						
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. This REPORT consists of a total of sheets, including this cover sheet. 							
This report is also accompanied by Articological Properties and a section and the basis for this report and/or sheets containing rectifications made which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).							
These annexes consist of a total of $\underline{\mathcal{I}}$ sheets.							
3. This report contains indications relating to the following items:							
I Basis of the re	I Basis of the report						
II Priority							
III Non-establish	III Non-establishment of report with regard to novelty, inventive step and industrial applicability						
IV Lack of unity							
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
_							
VII Certain defec	VII Certain defects in the international application						
VIII Certain obser	VIII Certain observations on the international application						
Date of submission of the demand		Date of completion	on of this report				
30 March 2004 (30.03.2004)		29 September 2004 (29.09.2004)					
Name and mailing address of the IPEA/US		Authorized officer Robert H. Spitzer WM WWW					
Mail Stop PCT, Atm: IPEA/US Commissioner for Patents		Robert H. Spitzer / WWW VWW					
P.O. Box 1450 Alexandria, Virginia 22313-14	50	Telephone No. (5	71) 272-0987				
T . 11 Nr. (702) 205 2020							

Facsimile No. (703) 305-3230
Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International app	n No.	
PCT/US03/20625		

I.	I. Basis of the report							
1.	With regard to the elements of the international application:*							
		the international application as originally filed.						
	$\overline{\boxtimes}$	the description:						
		pages 1,6-8,12 as originally filed						
		pages NONE , filed with the demand						
		pages 2-5 and 9-11 , filed with the letter of 31 August 2004 (31.08.2004)						
•								
	\bowtie	the claims:						
		pages 13-15 , as originally filed						
		pages NONE , as amended (together with any statement) under Article 19						
		pages NONE, filed with the demand pages NONE, filed with the letter of						
		•						
	\boxtimes	the drawings:						
		pages 1-3 , as originally filed						
		pages NONE, filed with the demand pages NONE, filed with the letter of						
		the sequence listing part of the description:						
		pages NONE , as originally filed						
		pages NONE, filed with the demand, filed with the letter of						
2	XX724	h regard to the language, all the elements marked above were available or furnished to this Authority in the						
Z	lano	uage in which the international application was filed, unless otherwise indicated under this item.						
	The	se elements were available or furnished to this Authority in the following language which is:						
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).						
	-	the language of publication of the international application (under Rule 48.3(b)).						
	<u> </u>							
		the language of the translation furnished for the purposes of international preliminary examination (under Rules						
		55.2 and/or 55.3). th regard to any nucleotide and/or amino acid sequence disclosed in the international application, the						
3	. Wil	rnational preliminary examination was carried out on the basis of the sequence listing:						
	mie							
	<u>_</u>	contained in the international application in printed form.						
	<u> </u>	filed together with the international application in computer readable form.						
		furnished subsequently to this Authority in written form.						
	<u> </u>	furnished subsequently to this Authority in computer readable form.						
ļ	-	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the						
	<u> </u>	international application as filed has been furnished.						
l	_	The statement that the information recorded in computer readable form is identical to the written sequence listing						
	L	has been furnished.						
١								
۱	4. 🔀	The amendments have resulted in the cancellation of:						
		the description, pages NONE						
ł								
		the claims, Nos. NONE						
	,	the drawings, sheets/fig NONE						
1	5. [_	This report has been established as if (some of) the amendments had not been made, since they have been considered to go						
		beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).***						
1	* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report is not contain amendments (Rules 70.16 and 70.17).							
	this report as "originally filed" and are not annexed to this report since they do not conduit discharacted (** ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.							
1	** Any replacement sheet containing such anchanterus mass of 1921							



International appl PCT/US03/20625

v.	 Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability citations and explanations supporting such statement 						
1.	STATEMENT						
	Novelty (N)	Claims	1-9	YES			
	novely (1)	Claims	NONE	NO			
	Inventive Step (IS)	Claims	1-9	YES			
	mychive step (15)	Claims	NONE	NO			
	midden in reprise to the second	Claims	1-9	YES			
		NONE	NO				
2	CITATIONS AND EXPLANATIONS	\					

2. CITATIONS AND EXPLANATIONS

Claims 1-9 meet industrial applicability as defined by PCT Article 33(4). The subject matter claimed can be made or used in industry.

Claims 1-9 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest a flow conduit having a semi-permeable section to permeate the component to be separated, with the use of a sweep gas obtained at a first velocity, which first velocity is accelerated so that the velocity of the sweep gas along at least a portion of the permeate side of the semipermeable section of the flow conduit is greater than such first velocity, and the gas mixture is then decelerated by a defuser, thereby recovering as pressure a portion of the energy of the gas mixture.

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